

## Attachment X

### General Publications Requirements

1.0 PREPARATION INSTRUCTIONS. You shall deliver DA Technical Manuals (TM), National Maintenance Work Requirements (NMWRs), Electronic TMs (ETM) in Portable Document Format (PDF) In Accordance With (IAW) guidance below:

2.0 Requirements for publication deliveries shall be as follows:

2.1 Draft Equipment Publication (DEP). For DEP delivery, the Contractor shall provide complete publication(s), that is, validated draft data in DA TMs and ETMs. DEP manual(s) shall be hardcopy and shall be representative of the final product. Contents must be clearly legible with content and format as for final. DEP TM hardcopies shall be reproduced back-to-back, collated and assembled, with each copy drilled for standard three-hole punch. **See Paragraph 5 below for PDF ETM requirements.**

2.2 Final Draft Equipment Publication (FDEP). For FDEP delivery you shall provide complete publication(s). FDEP shall include all changes and final resolutions resulting from government reviews and tests as well as your quality reviews and final edit. Illustrations shall be inked and all call-outs and text shall be typeset. FDEP manual(s) delivery shall include quantities as stated on the Contract Data Requirements List (CDRL) and consists of the following:

2.2.1 Copies of final paper manual(s) in the necessary quantities as per the proper CDRLs each reproduced back-to-back, collated and assembled, and drilled for standard three-hole punch.

2.2.2 Final Reproducible Copy (FRC) shall be single-sided reproducible pages, collated and ready for one-to-one reproduction. FRC pages produced from a 600 dot-per-inch (minimum) laser printer or Photo Mechanical of original master paste-up boards are acceptable. The intent is to receive crisp, clear, reproducible pages without paste-up, ready for one-to-one reproduction without additional work or loss of quality due to handling or storage.

3.0 SPECIFICATIONS:

3.1 MIL-STD-40051-2, DoD Standard Practice, Preparation of Digital Technical Information for Page-Based TMs.

3.2 MIL-HDBK-1222C (TM), DoD Handbook, Guide to the General Style and Format of US Army Work Package TMs. This Handbook contains style and format guidance for both IETMs and paper/PDF TMs. It should be used in conjunction with both MIL-STD-40051-1 and MIL-STD-40051-2.

**3.3 MIL-PRF-63004D, Lubrication Order**

4.0 CLARIFICATIONS:

4.1 Safety information, army unique warnings and noise hazard profile related to noise hazards shall be added to commercial manual supplemental data or DA TMs if 85 dB9A noise level is exceeded. NOTE: DO NOT include any Class I Ozone Depleting Chemicals (ODC's) or reference to ODC's in the commercial manuals with supplemental data or DA TMs.

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4.2 All illustrations shall be line drawings, unless otherwise directed or approved by the government. Digital photographs may be used where the clarity of information is better than line drawings would provide or where there are other advantages to the TM users, however, the use of digital photographs must be approved by the government.

4.3 Illustrations in operation and maintenance instructions shall be isometric and provide a view as seen by user. Illustrations shall appear on same or facing page as applicable text; quantity and type of illustration shall allow user to locate items and operate and maintain equipment in an accurate and efficient manner.

4.4 Incorporate appropriate lubrication instructions into the Operator and Unit Preventive Maintenance Checks and Services (PMCS) at the applicable hard time intervals IAW Military Standard (MIL-STD)-40051-2. Or develop and deliver lubrication information in a Lubrication Order, IAW MIL-PRF-63004D. Include Army Oil Analysis Program (AOAP) instructions, if applicable and any initial, onetime or warranty related requirements.

4.5 Prepare an operator/crew PMCS IAW MIL-STD-40051-2. The operator/crew checks and services must require only the common tools which are included in the Basic Issue Item's furnished with and stored on the vehicle during operation. Operator/crew PMCS will include intervals such as; before, during, after, weekly and monthly, as applicable.

4.6 Prepare a Unit PMCS containing Unit level tasks IAW MIL-STD-40051-2. The Unit PMCS will include intervals such as; Quarterly, Semiannually or Annually.

4.7 Develop and update a Maintenance Allocation Chart (MAC) IAW MIL-STD-40051-2. The MAC shall be in Functional Group Code (FGC) sequence to conform to structure of Technical Manuals and MIL-STD-40051-2. You shall update the MAC throughout the performance period of the contract, including results of your analysis, vehicle testing, validation, verification and review of applicable Logistics Management Information (LMI) data. You shall perform an analysis to identify the extent of repair for each potentially repairable item and recommend the maintenance level to perform the work within the Army Maintenance System (AR 750-1, chapter 3, section 3, paragraphs 3-8 through 3-11), which can be found at the following WEB address:

<http://www.atsc-army.org/cgi-bin/atdl.dll/ar/750-1/ar7501topc.htm>

Variables such as item price, parts prices, failure rates of the repairable item, and piece parts, labor costs, and the cost of special tools and equipment shall be considered.

4.8 Prepare Components of End Item (COEI) and Basic Issue Items (BII) lists as supplemental data page(s) IAW MIL-STD-40051-2.

4.9 Prepare Additional Authorized List (AAL) as supplemental data page(s) IAW MIL-STD-40051-2.

4.10 Prepare an updated, revised Appendix A, References: see MIL-STD-40051-2.

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4.11 Prepare set-up pages (Task Boxes) information for all maintenance tasks IAW MIL-STD-40051-2. Set-Up information includes (but limited too): Test Equipment, Tools and Special Tools, Materials/Parts (expendables/durables and spare/repair part), Equipment Condition, Drawing (this section will include reference to the Repair Parts and Special Tools List (RPSTL), and Estimated Time to Complete Task.

4.12 Transportability Data for disassembly and assembly for all vehicles required to meet all transport modes called out in the contract shall be added to the operator's manual. This data may be added as an appendix to the manual. The contractor shall include a reference identifying the location of tools and equipment required for preparation of transport.

4.13 A list of components susceptible to damage from the biological/chemical-decontaminant DS2 must be included in the TM.

4.14 TMs must provide a reference to decontamination procedures. (Field Manual (FM) 3-5, entitled "NBC Decontamination".)

4.15 TMs must include a list of components susceptible to High-altitude Electromagnetic Pulse (HEMP).

4.16 Operator TM must include long term and short term storage requirements, any exercise of equipment needed to prevent deterioration.

#### **5.0 ADOBE ACROBAT ETMs:**

5.1 The contractor shall develop separate ETMs from the DA TMs using the portable document exchange system Acrobat (Adobe Systems Acrobat Version 4.0 or higher) PDF. These files will not have any linking done, but they shall be editable and searchable. Content of DA TMs shall meet the content requirements of MIL-STD-40051-2 as appropriate. The PDF files of each Technical Manual must be distilled or produced electronically from the TM and shall match exactly the content of the TM.

5.2 The contractor shall create editable files containing all the text of the ETMs. The contractor will also create Computer Graphics Metafile (CGM) or Consultative Committee on International Telephony and Telegraphy (CCITT) Group 4 files or Tag Image Format Files (TIFF) containing all the graphics/line drawings of the ETMs.

5.3 The contractor shall deliver each Acrobat PDF ETM on an International Organization for Standardization (ISO) 9660 CD-ROM. NMWR(s) shall be delivered on separate ISO 9660 CD-ROM(s). Deliver the separate editable files and graphic files will also be accomplished on separate ISO 9660 CD-ROMs.

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5.4 The contractor shall provide the government with validated draft DA TMs IAW the CDRLs. The contractor's validation shall be hands-on live testing, desk-top review, or a combination of these methods to ensure that the draft ETMs are fully operational so that the government can evaluate their operation, navigation, and structure. The paper copy draft and the ETMs shall be mutually inclusive of data, text and art, and format. The contractor shall give the government a 30-day notice of the time and place of their validation so the government may attend.

5.5 The contractor shall provide the government with final draft ETMs and paper final draft DA TMs IAW the CDRLs. All errors discovered by the government or contractor during validation, verification, and reviews shall be corrected by the contractor at no additional charge.

5.6 The Acrobat PDF ETMs shall not contain linking, unless permission to link is granted by government publications representatives. If approved by government publications representative, linking must meet LOGSA PDF linking requirements.